

ABSTRACT OF THE DISCLOSURE

A surface acoustic wave filter includes series-arm resonators and parallel-arm resonators that are connected in a ladder-like fashion. This surface
5 acoustic wave filter satisfies conditions expressed as:

$$1 \times 10^6 \leq 4\pi^2 f_0^2 R^2 C_{op} C_{os} \leq 3.1 \times 10^6$$

where C_{op} is the electrostatic capacitance of the
10 parallel-arm resonators, C_{os} is the electrostatic capacitance of the series-arm resonators, f_0 is the center frequency, and R is the nominal impedance.